- if the quantity in Column & is greater.

  if the quantity in Column & is greater.

  if the two quantities are equal;

  if the relationship cannot be determined from the information given.

Eolumn A Column B 0.0230102301 0.023023 A purchase plan for a stereo receiver requires 20 percent of the total cost as a down payment and monthly payments of \$30.

2. The total cost of the stereo receiver

\$450



 $\triangle PQR$  is inscribed in a circle.

PQ .

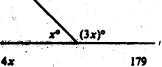
QR

$$m+2=8$$

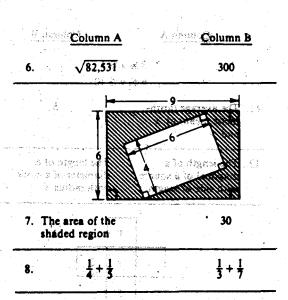
$$r-2=7$$

4[(m+2)+(r-2)]

(m+2)(r-2)



4x



On a 50-question multiple-choice test, 3 points were given for each question answered correctly and I point was deducted for each question answered incorrectly. A student who answered all of the questions on the test received a total of 98 points.

9. The number of questions on the test that the student answered incorrectly

14

 $(0.2)^6$ 

10.  $(0.4)^3$ 

A if the quantity in Column A is greater;

B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.

# Column A

Column B

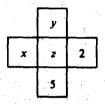
 $3 \le x \le 5$  $6 \le y \le 10$ 

11. The average (arithmetic mean) of x and y

5

12. The length of a diagonal of a square with side of length s

The length of a diameter of a circle with radius s



The sum of the three numbers in the horizontal row equals the sum of the three numbers in the vertical column.

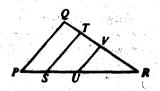
13.

x

y

Column A

Column B



PQ || ST || UV

14. The area of triangular region RUV plus the area of triangular region RST

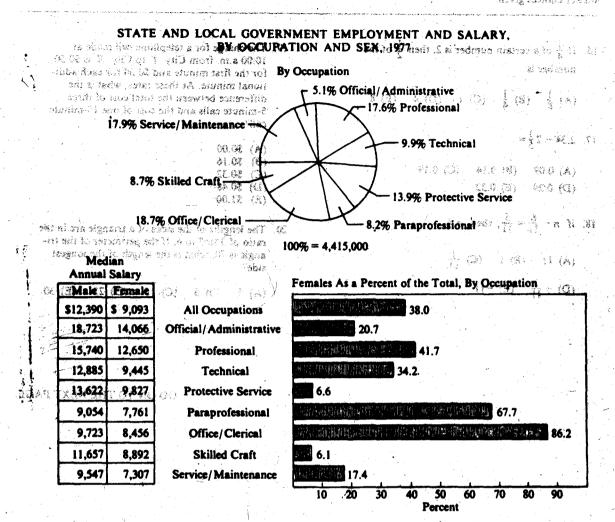
The area of triangular region RPQ

15. 2x +

x-1

- 16. If  $\frac{1}{4}$  of a certain number is 2, then  $\frac{1}{2}$  of the number is
  - (A)  $\frac{1}{8}$  (B)  $\frac{1}{4}$  (C) 1 (D) 4 (E) 8
- 17.  $2.34 2\frac{1}{5} =$ 
  - (A) 0.09 (B) 0.14 (C) 0.19
  - (D) 0.29 (E) 0.32
- 18. If  $n \frac{6}{11} = \frac{5}{11}$ , then n =
  - (A) 11 (B) 1 (C) 1
  - (D)  $-\frac{1}{11}$  (E) -11

- 19. The charge for a telephone call made at 10:00 a.m. from City Y to City X is \$0.50 for the first minute and \$0.34 for each additional minute. At these rates, what is the difference between the total cost of three 5-minute calls and the cost of one 15-minute call?
  - (A) \$0.00
  - (B) \$0.16
  - (C) \$0.32
  - (D) \$0.48
  - (E) \$1.00
- 20. The lengths of the sides of a triangle are in the ratio of 3 to 5 to 6. If the perimeter of the triangle is 70, what is the length of the longest side?
  - (A) 5 (B) 6 (C) 15 (D) 25 (E) 30



- 21. Approximately what percent of state and local government employees were male?
  - (A) 38%
- (C) 58%

Vince II (N) I give I (N)

四年6月 (6) 日本6月(7)

- (D) 62%
- (E) 80%
- 22. State and local governments employed approximately how many more office/clerical employees than skilled craft employees?
  - 384,000
  - (B) 441,500
  - Ìά 650,500
  - (D) 825,600
  - (E) 1,209,700
- 23. For state and local government employees, the median annual salary for males was approximately what percent greater than that for females?
  - (A) 10%
- (B) 20%
- (C) 25%
- (D) 35% (E) 75%
- 24. For state and local government employees, approximately what was the difference between the number of females employed as professionals and the number of females employed in service/maintenance occupations?
  - 75,000
  - **(B)** 185,000
  - 765,000
  - 1,070,000

1,840,000

**(E)** 

(B) 52%

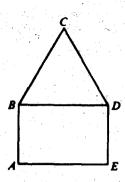
- 25. Which of the following statements about state and local government employees can be inferred from the data?
  - On the outsider line always I. Fewer than ‡ of those in paraprofessional occupations were males.
  - There were more than 5 times the number of females in the technical occupations as in the skilled craft occupations.
  - There were more than 6 times the number of females in the professional occupations as in the official/administrative occupations.
  - (A) I only(B) II only

  - (C) I and II only
  - (D) II and III only
  - (E) I, II, and III

I. Bright the property of the state of the s GO ON TO THE NEXT PAGE.

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- 26. On the number line above, what number corresponds to a point that is \( \frac{1}{2} \) of the distance from 10 to 40?
  - (A) 6 (B) 8 (C) 12 (D) 15 (E) 22



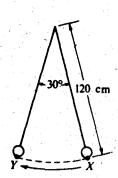
- 27. If polygon ABCDE above has perimeter 26 and equilateral triangle BCD has perimeter 18, what is the area of rectangular region ABDE?

  - (B) 12 (C) 24 (D) 32

- 28. Which of the following expressions has (have) the same value for n=5 as for  $n=\frac{1}{2}$ ?

  - 11.

  - (B) II only (C) III only (A) I only
  - (D) I and II (E) II and III

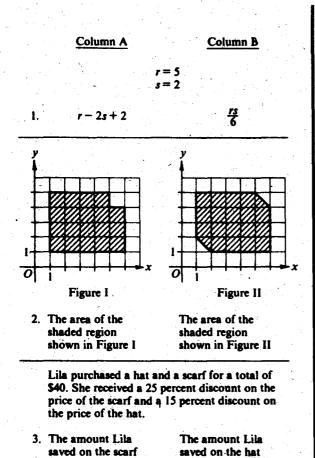


- 30. If  $p = \frac{2}{3}$  and r = 4, then  $(p\sqrt{3})^r (p + \frac{1}{9}) =$ (A) -1 (B)  $-\frac{5}{9}$  (C)  $\frac{5}{9}$  (D) 1 (E)  $\frac{11}{9}$
- 29. The figure above shows the path traced by the end of a pendulum as it moves from point X to point Y. How many centimeters does the end of the pendulum travel along the arc from X

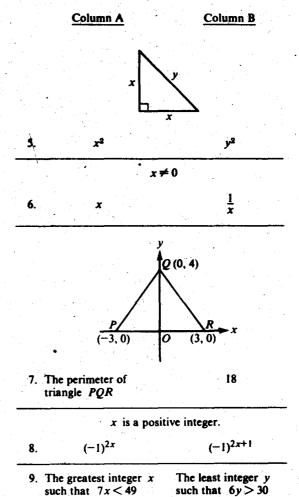
A if the quantity in Column A is greater;

25% of (12 + 8)

- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.



(25% of 12) + 8



A if the quantity in Column A is greater;

B if the quantity in Column B is greater;

C if the two quantities are equal;

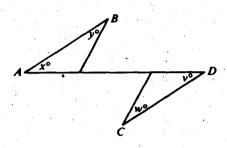
D if the relationship cannot be determined from the information given.

# Column A

### Column B

10. The average (arithmetic mean) of x+5, 2x+3, and 1-3x

The average (arithmetic mean) of 5, 2, 8, 6, and 4



AB is parallel to CD.

11.	x+y	w+v	
12.	$\sqrt{2} + \sqrt{10}$	$\sqrt{6} + \sqrt{6}$	

# Column A

# Column B

A rectangular floor with an area of 12 square meters is drawn to scale with 2 centimeters representing 1 meter.

13. The area of the scale drawing of the floor

24 square centimeters

A deck of n cards contains exactly k marked cards.  $(k \neq 0)$ 

14. The ratio of the number of unmarked cards in the deck to the number of marked cards in the deck

**9** – 1

15. 2<sup>6</sup>·5<sup>6</sup>

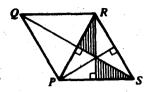
5(10\*)

Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the

- 16. If 3x+5=2x+10, then x=
  - (B) 2 (C) 3 (D) 5
- 17. ++ equals how many twelfths?
  - (A) 2 (B) 4 (C) 6 (D) 8
- 18. Of the 400 cadets in a graduating class, 30 perre women and, of these,  $\frac{1}{2}$  became instructors was twice the number of women who became instructors, how many of the men

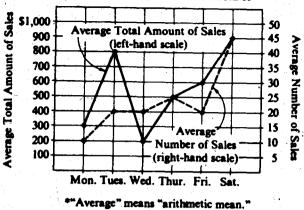
  - (A) 120 (B) 48 (C) 40 (D) 24 (E) 20

- 19. Of the following fractions, which has the least
  - (A)  $\frac{8}{7}$  (B)  $\frac{8}{9}$  (C)  $\frac{5}{6}$  (D)  $\frac{7}{8}$  (E)  $\frac{7}{9}$



- 20. If  $\triangle PQR$  and  $\triangle PRS$  above are equilateral, what fraction of PQRS is shaded?
  - (A)  $\frac{1}{3}$  (B)  $\frac{1}{4}$  (C)  $\frac{1}{6}$  (D)  $\frac{1}{9}$  (E)  $\frac{1}{12}$

# AVERAGE\* DAILY TOTAL AMOUNT OF SALES AND NUMBER OF SALES FOR STORE X

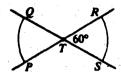


Note: Drawn to scale.

- 21. What is the average total amount of sales made on a Friday for Store X?
  - (A) \$200 (B) \$300
  - (D) \$500 (E) \$600
- 22. On the average, what is the total amount of sales per week (Monday through Saturday) for
  - Store X? (A) \$2,700
- (B) \$2,800
- (C) \$3,300
- (D) \$3,600 (E) \$4,400
- 23. What is the average amount of a sale made on a Wednesday for Store X?
  - (A) \$0.50
- (B) \$2.00 (C) \$10.00
- (D) \$20.00 (E) \$40.00

- 24. On which of the following days is the average amount of a sale greatest for Store X?
  - Monday
  - (B) Tuesday
  - (C) Wednesday
  - (D) Thursday
  - (E) Saturday
- 25. During the first week of a certain month, how many more sales were made in Store X on Saturday than on Monday?
  - (A) 15 (B) 25 (C) 30 (D) 35
  - (E) It cannot be determined from the information given.

- 26. A frain travels from City X to City Y in 3 hours and 30 minutes at an average speed of 60 miles per hour. If the train returns at an average speed of 50 miles per hour, how long does the return trip take?
  - (A) 2 hr 55 min
  - (B) 3 hr 40 min
  - (C) 4 hr 12 min
  - (D) 4 hr 32 min (E) 4 hr 40 min



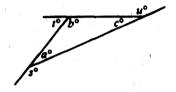
- 27. In the figure above, if point T is 6 centimeters from every point on arc PQ and from every point on arc RS, what is the sum of the areas, in square centimeters, of regions PQT and TRS?

- $4-n\square 6$  $4-n\square 5$
- 28. Which of the following symbols should be substituted for D to make both of the statements above true for all integers n such that  $-2 < n \leq 3$ ?

$$(A) \le (B) < (C) = (D) > (E) \ge$$

29. 
$$\left(\frac{8\sqrt{2}-4}{4}\right)^2 =$$

- (B)  $36 16\sqrt{2}$
- (C)
- (D) 9
- (E)  $32\sqrt{2}$



- 30. In the figure above,  $\frac{a+b+c}{s+l+u}$ =
  - (A)  $\frac{1}{3}$  (B)  $\frac{1}{2}$  (C)  $\frac{2}{3}$  (D) 1 (E)  $\frac{3}{2}$

# $^{\prime}$ FOR GENERAL TEST 16 ONLY

Answer Key and I						
VERBAL ADILITY						
Seellen 1	•	estes 4				
Number Assure	7+	Humber	Accuse	P+		
1 , A	87	. ,	C	26		
1 A		2 `	8	74		
/a E	80	3	A	84		
1 A D E E E E E E E E E E E E E E E E E E	64	4	C B A E D	54		
, <b>.</b>	54	5	0	64		
. D	50		8	61		
7 C	36	7	E	34		
7 C 8 B	92	1 2 3 4 5 6 7 8	E	94		
6 D 7 C 8 B 9 A	76		- A	75		
10 B	67	10	8	77		
11 E	623	11	- D	57		
12 C	52	12	Ā	62		
11 E 12 C 13 D 14 B	46	13	D A C A B	54		
14 B	46	14	A	40		
16 8	27	15	8	45		
11 E 12 C 13 D 14 B 16 B 17 E 18 D 19 C	16	16	E	26		
17 E	70	17	C	80		
18. D	78	17 18	C '	86		
16 B 17 E 18 D 19 C	41	10	· A	70		
<b>20</b> A	47	20	Α,	28		
21 D	55	21	ECCAA DEEBE	54		
22 8	38	22	E	42		
238 C	52	23	E	22		
21 D 22 B 28 C 34 E 26 C	67	24	B	83		
	26	21 22 23 24 24 25	E	51		
21 D 22 8 23 C 34 E 35 C 36 E 27 D 38 B 30 A	31	26	C	54		
<b>27</b> D	82	27	D	47		
<b>28</b> · · · B	94	28	· C	90		
<b>20</b> E	90	29	C C B	82		
20 A	•	26 27 28 29 30	D	81		
27 D 28 B 29 E 30 A 31 B 32 C 33 A 34 B 35 A	87 69 60 64 54 50 52 67 65 52 46 46 70 78 52 67 55 52 67 55 52 67 55 52 67 55 52 55 55 55 55 55 55 55 55 55 55 55	31 32 33 34 34 36	8	74 64 54 61 61 34 94 75 77 57 62 54 40 45 26 88 66 70 28 54 47 50 62 81 75 55 54 75 55 55 54 75 56 56 56 56 56 56 56 56 56 56 56 56 56		
æ c	57	32	E	54		
. 33 A	54	33	C	51		
34 B	*	34	8 C 8 D	30		
<b>3</b> D	20		D	<b>**</b>		
32 C 35 A 34 B 36 D 36 A 37 A	36	36 37	A	35		
37 A	30	37		-24		

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1	8	90	1	<b>A</b>	85
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5	A	78	5	8	81
5.6	В	84	- 6	D	86
7 .	C	76	7	8	74
	В	65		Ą.	62
	В	36	9	, C	64
10 /	À	63	10	. 8	57
- 11	D	40	. 11	D	47
12	В	52	12	B	46
13	A	61	13	• 🗛	41
14	D	43	14	C	35
15	C	38	. 15	C	27
16	D	93	16	D	94
17	8	86	17	D	85
18	. 8	83	18	8	85
19	C,	71	19	Ε	70
20	E	66	20	C	. 66
21	D	75	21	E	78
22	B -	80	22	С	75
23	D.	35	23	C	45
24	8	27	24	B	49
25	E		25	E	61
26	E	56	28	С	73
27	Ç	53	27	E	51
20	A	37	28	A	45
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- 5	A	80	5	A	67		
6	В	40		O	80		
7	C	81	7	8	78		
8	C	79	•	E	50		
. 9 10	0	66	9 10	E	80		
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11	C	62	11	D	49		
12	8	70	12	A	52		
13 14	B D	47 55	13 14	C	50 66		
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if the quantity in Column A is greater;

if the quantity in Column B is greater;

if the two quantities are equal;

D if the relationship cannot be determined from the information given.

Column A Column B 1. The cost of 3 pounds \$1.00 of peaches at \$0.34 per pound 12 18 km Coaltown Austen 19 km Woodland The map shows the only roads that connect the

four towns and shows the distance along each

3. The road distance between Austen and Seburg

The road distance between Coaltown and Woodland

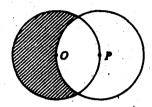
50 + 50 .

103

xy = 18 and x + y = 9

Column A

Column B



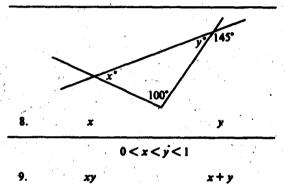
The circles above, with centers O and P. each have radius r.

6. Twice the area of the shaded region

The area of the circular region with center P

y = -3

7.  $y^2 - 3y - 2$   $y^2 + 3y + 10$ 



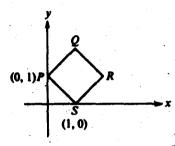
A if the quantity in Column A is greater;

B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.

# Column A Column B 10. The area of a rectangular region with sides of lengths a and bThe area of a rectangular region with sides of lengths a (a + 1) and a a + 1 + 1 + 2 + 2 + 3 + 3 + 411. $\frac{2\frac{1}{2}}{3\frac{3}{2}}$ $\frac{6\frac{1}{2}}{9\frac{3}{2}}$



In the rectangular coordinate system above, PQRS is a square.

# 12: The perimeter of PQRS

Column A

Column B

When integer n is divided by 9, the remainder is 2.

13. The remainder when n is divided by 3

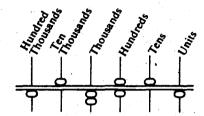
2

A certain store sells each pencil at the same price regardless of the number of pencils sold. k of these pencils have a total price of q cents, and r of these pencils have a total price of s cents.

14.	ks	<b>qr</b>
	· .	
15.	$a^2+b^2$	$(a+b)^2$

Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the answer choices given.

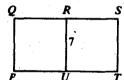
- 16. On a number line, what is the distance between -3 and 7?
  - (A) 10 (B) 8 (C) 7 (D) 5 (E) 4



- 17. In the figure above, each of the beads above the horizontal bar represents 5 times the place value indicated and each of the beads below the bar represents I times the place value indicated. What number is represented by the figure above?
  - (A) 512,651

  - (B) 512,615 (C) 156,651

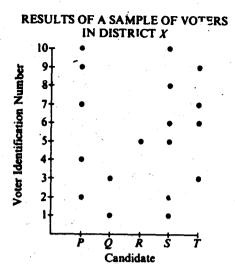
  - (D) 152,651 (E) 152,251



- 18. In the figure above, if PQRU and URST are squares, what is the area of rectangular region PQST?
  - (A) 28 (B) 42 (C) 49 (D) 98
  - (E) It cannot be determined from the information given.

- 19. Each of the following is the square of an integer **EXCEPT** 
  - (A) 81 (B) 100 (C) 121
  - (D) 196 (E) 215
- 20. The average (arithmetic mean) of two numbers is 2x + 1. If one of the numbers is x, then the other number is
  - x 1
  - (B) x+1
  - (C) 2x 1
  - (D) 3x + 1
  - (E) 3x + 2

\* Questions 21-25 refer to the following graph.



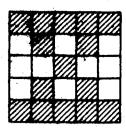
The graph above shows how a sample of 10 different voters (vertical axis) voted for 5 different candidates (horizontal axis). Each voter voted for either one or two of the five candidates. (No voter voted twice for the same candidate.) The two candidates receiving the most votes were the winners. The sample constituted 5 percent of those in the district who voted, and the number of votes in the district for each candidate was in the same proportion as the number of votes in the sample for each candidate.

- 21. How many people in the sample voted for both winners?
  - (A) One
  - (B) Two
  - (C) Three
  - (D) Five
  - (E) Six

22. What fraction of the total number of votes cast did the two winners receive?

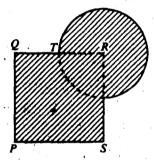
(A)  $\frac{11}{18}$  (B)  $\frac{11}{20}$  (C)  $\frac{1}{2}$  (D)  $\frac{1}{3}$  (E)  $\frac{3}{10}$ 

- 23. What percent of the sample voted for at least one of the two winners?
  - (A) 11%
  - (B) 20%
  - (C) 55%
  - (D) 61%
  - (E) 90%
- 24. How many votes were cast in district X?
  - (A) 18 (B) 90 (C) 200
  - (D) 360 (E) 400
- 25. In district X, candidate T received how many more votes than candidate Q?
  - (A) 2 (B) 10 (C) 20 (D) 40 (E) 80



- 26. In the figure above, the number of shaded squares is what percent greater than the number of unshaded squares?
  - (B) 40% (A) 25%
- (C) 50%
- (D) 60% (E) 75%
- 27. If x, y, and z are three different positive integers less than 10, what is the greatest possible value of the expression  $\frac{x-y}{x}$ ?

  - (A) 8 (B) 7 (C) 6 (D) 5



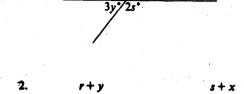
- 28. In the figure above, vertex R of square PQRS is the center of the circle. If QT = TR = 3, what is the area of the shaded region?
  - (A)  $9 + \frac{27}{4}\pi$

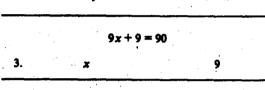
  - (C)  $36 + \frac{27}{4}$
  - (D)  $36 + 9\pi$
  - (E)  $36 + 27\pi$

- is a prime number greater than 11, and of the two prime numbers x and could be which of the following?
  - (B) 5 (C) 7 (D) 9
- 30. If 18 identical machines required 40 days to ngiste a job, how many fewer days would been required to do the job if 6 addition sines of the same type had bee the beginning?
  - (A) 10
  - (D) 13 }
  - (C) 16
  - (D) 26 F
  - (E) 36

- A if the quantity in Column A is greater;
- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.

Column A		Column B
<ol> <li>The least common denominator of 1, 1/3, and 1/4</li> </ol>	<b>n</b>	15
· · · · · · · · · · · · · · · · · · ·		

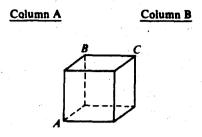




Toni bought n dozen eggs for \$12 and m half gallons of milk for \$6.

- 4. The price Toni paid for a dozen eggs

  The price Toni paid for a half gallon of milk
- 5.  $2+\sqrt{3}$   $1+\sqrt{4}$



The figure above is a cube.

In  $\triangle RST$ , RS = ST and the measure of  $\angle RST$  is 20°.

9. The measure of ∠TRS

GO ON TO THE NEXT PAGE.

80° .

A if the quantity in Column A is greater;
B if the quantity in Column B is greater;

if the two quantities are equal;

D if the relationship cannot be determined from the information given.

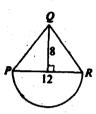
# Column A

Column B

x and y are positive numbers.

$$10. \left(\frac{x+y}{2}\right)^2 - \left(\frac{x-y}{2}\right)^2$$

0



The diameter of the semicircle is 12 and the height of the triangle is 8.

11. The area of the semicircular region

The area of triangular region PQR

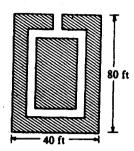
Fahrenheit temperatures recorded at location X at 4-hour intervals were -8°, -5°, 7°, 5°, 3°, 1°.

12. The average (arithmetic n of the temperatures recorded above

1°F

Column A

Column B



The diagram represents a rectangular garden. The shaded regions are planted in flowers, and the unshaded region is a walk 2 feet wide. All angles are right angles.

The sum of the areas of the shaded regions

2,800 square feet

14. 87

86 + 2.86 + 4.86

 $x \neq 0$ 

15.

19 20 ×

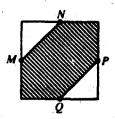
 $\frac{20}{19} \left( \frac{1}{x} \right)$ 

<u>Directions</u>: Each of the <u>Questions 16-30</u> has five answer choices. For each of these questions, select the best of the answer choices given.

- 16. If a=3b+c, what is the value of b when a=17 and c=2?
  - (A) 5
  - (B)  $6\frac{1}{3}$
  - (C) 12
  - (D) 15
  - (E) 45



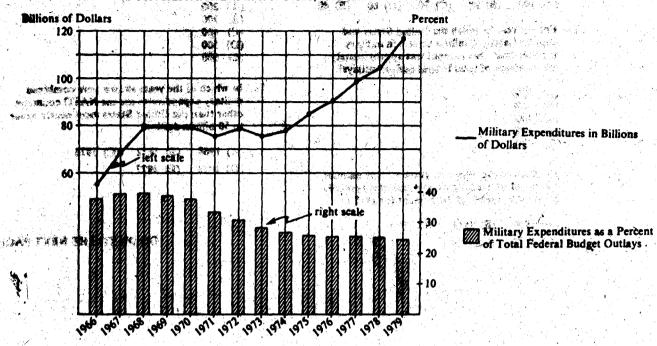
- (A) 2 (B)  $\frac{1}{2}$  (C)  $\frac{1}{3}$  (D)  $\frac{1}{9}$  (E)  $\frac{1}{18}$
- 18. If 4x-2y=8, what is the value of 2x-y?
  - (A) 3 (B) 4 (C) 5 (D) 6
  - (E) It cannot be determined from the information given.



- 19. In the square above, M, N, P, and Q are midpoints of the sides. If the area of the square region is A, what is the area of the shaded region?
  - (A)  $\frac{1}{4}A$
  - $(B) \frac{1}{2}A$
  - (C) } A
  - $(D) \frac{3}{4}A$
  - (E) 7 A
- 20. What is the least number x for which (2x+1)(x-2)=0?
  - (A) -2 (B) -1 (C)  $-\frac{1}{2}$  (D)  $\frac{1}{2}$  (E) 2

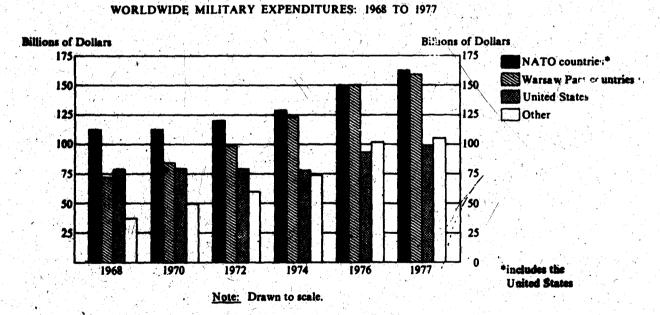
# Questions & de refte toute Sellowitg graphs.

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work to the promotion of the provider of the

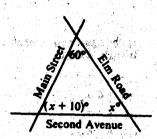
Note: Drawn to scale.



- 21. In 1968 the military expenditures of the United States were approximately how many billion dollars?
  - (A) 100 (B) 80 (C) 70 (D) 60
- 22. For the year in which the United States had approximately 70 billion dollars in military expenditures, that amount was approxiwhat percent of total federal budget outlays?
- 23. In which of the following years was the amount of United States military expenditures approximately 80 percent of the amount for 1978?
  - (A) 1967 (B) 1968 (C) 1973 (D) 1975 (E) 1976

- 24. In 1977, Sederal budget outlays for the United States totaled approximately how many bill
- 25. In which of the years shown were combin military expenditures for the NATO cou other than the United St to 50 billion dellars?
  - (A) 1968
- (B) 1972
- (C) 1974
- (D) 1976 (E) 1977

- 26. In a certain club for men and women, 40 percent of the members are men. If 20 percent of the men/and 10 percent of the women members went to a theater performance, what percent of the total membership went to the performance?
  - (A) 12%
- (B) 14%
- (C) 15%
- (D) 16%
- (E) 30%



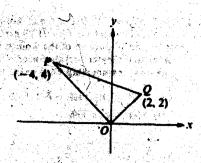
- 27. The figure above shows the angles of intersection of three streets. At what angle do Second Avenue and Main Street intersect?

  - (A) 50° (B) 55° (C) 65° (D) 70°

- 28. If x, y, and z are consecutive integers and x < y < z, which of the following must be true?
  - 1. xyz is even.
  - II. x+y+z is even.
  - III. (x+y)(y+z) is odd.
  - (A) None
  - (B) I only
  - (C) II only
  - (D) I and III only
  - (E) I, II, and III

29. If  $\langle n \rangle = \frac{m(n+1)}{2}$  for all integers n, and  $m = \langle 5 \rangle$ , then  $\langle m \rangle =$ 

- (A) 120
- (B) 225
- (C) 240
- (D) 420
- (E) 840



 In the figure above, what is the perimeter of triangle OPO?

- (A)  $4 + 2\sqrt{2}$
- (B)  $8 + 4\sqrt{2}$
- (C) 6+2\sqrt{5}
- (D) 6+6
- (E)  $6\sqrt{2} + 2\sqrt{10}$

. •••

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# FOR GENERAL TEST 17 ONLY

Answer Key and Percentages' of Examinees Answering Each Question Correctly

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3 C	57	3	D	66
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- 5 E	51	5	В	72 63
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8 C	92		В	88
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25 A 24 C		24	C	40
25 B	53 59 50 70	25	<u> </u>	42
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26 C	63	26	E	49
27 D	76	27	A	55
28 A 29 C	34	28	E A A	31
22 8 23 A 24 C 25 8 C 27 D 28 A 29 C 29 A	63 76 94 71	29 30	Ď	25 36 84 69 72 40 42 49 58 91 88
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51 A 52 D 53 A 54 B 55 D 56 A 57 E	60 43 45 45 29 37 36	31	D .	73 73 46 50
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<b>3</b>	46	<b>33</b>	E	<b>*</b>
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36 D	7	35	E	25
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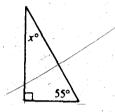
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	8	89		С	69
10	D	59	10	A	68
11	С	80	11	A .	58
12	A	49	12	В	65
13	C	49 41	13	D	59
14	C	41	14	A .	42
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25	D	48	25	C	46
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ANALYTICAL ABILITY							
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3	8	53	3	В	94		
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5	A	•	5	D	70		
6	C	85		A	81		
7	E	91	7	E	51		
8	D	63		C	60		
9.	B D	74		8	67		
10	D	50	10	E	38		
41	E	35	11	D	30		
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Entirested P + for the group of examinees who took the GRE General Test in a recent three-year period.

- A if the quantity in Column A is greater;
- B if the quantity in Column B is greater;
- C if the two quantities are equal:
- D if the relationship cannot be determined from the information given.

20 14 14 12 24	Column A	Column B
1.	(40% of 50) + 60	(60% of 50) + 40
<b> 2.</b>	1/12 of 17	$\frac{1}{17}$ of 12
3.	x + y =	=-1 / y
4.	23(784)	24(783)
	0 <r< td=""><td>&lt;1</td></r<>	<1
5.	origo <del>is L</del> espos es nos	<u>į</u> ,



35

_		
Col	umn	A

Column B

For each home in Town X, the amount of property tax is p percent of the value of the home. The property tax on a home whose value is \$45,000 is \$1,200.

7. The property tax on a home in Town X whose value is \$54,000

\$1,300

The area of square region 5 as 36.

8. The perimeter of S

24

A printer numbered consecutively the pages of a book, beginning with I on the first page. In numbering the pages, he printed a total of 189 digits.

9. The number of pages in the book

100

The average (arithmetic mean) of x, y, and 6 is 3.

10.  $\frac{x+}{2}$ 

3

GO ON TO THE NEXT PAGE.

.....

A if the quantity in Column A is greater;

- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.

# Column A

Column B

Triangular regions  $T_1$  and  $T_2$  have equal areas and have heights  $h_1$  and  $h_2$ , respectively.

11	The area	of $T_1$	The area of $T_2$
11.	<u></u>	•	h <sub>z</sub>

12.  $\frac{3 \cdot 3 \cdot 3}{6 \cdot 6 \cdot 6}$   $\left(\frac{1}{2}\right)^3$ 



The area of the circular region with center P is 16m.

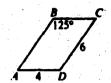
13.

Column A

Column B

m, p, and x are positive integers and mp = x.

14. m x



ABCD is a parallelogram.

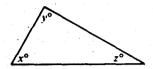
15. The area of region ABCD

24

GO ON TO THE NEXT PAGE.

<u>Directions</u>: Each of the <u>Questions 16-30</u> has five answer choices. For each of these questions, select the best of the answer choices given.

- 16. When walking, a certain person takes 16 complete steps in 10 seconds. At this rate, how many complete steps does the person take in 72 seconds?
  - (A) 45
  - (B) 78
  - (C) 86<sup>+</sup>
  - (E) 115

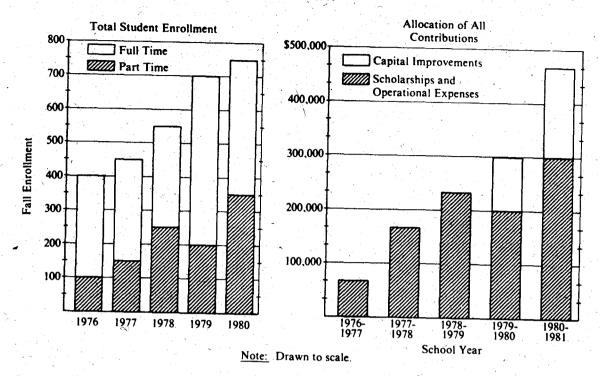


- 17. In the figure above, what is the value of  $\frac{x+y+z}{45}$ ?
  - (A) 2 (B) 3 (C) 4 (D) 5 (E) 6

- 18.  $52.68 \times \frac{1}{100} =$ 
  - (A) 0.05268 (B) 0.5268 (C) 5.26
  - (D) 526.8 (E) 52,680
- 19. If b-c=3, and a+c=32, then a+b=
  - (A) 30 (B) 35 (C) 40 (D) 42 (E) 50
- 20. A rectangular floor 18 feet by 10 feet is to be completely covered with carpeting that costs x dollars per square yard. In terms of x, how many dollars will the carpeting cost?
  (1 yard = 3 feet)
  - (A) 20x
  - (B) 28x
  - (C) 60x
  - (D) 180x
  - (E) 540x

GQ ON TO THE NEXT PAGE.

# COLLEGE R: ENROLLMENT AND CONTRIBUTIONS 1976-1980



- 21. What was the total number of students enrolled at College R in the fall of 1979?
  - (A) 200
  - (B) 250
  - (C) 500
  - (D) 650
  - (E) 700

- 22. By what percent did the number of part-time students enrolled increase from the fall of 1979 to the fall of 1980?
  - (A) 7%
  - (B) 42%
  - (C)  $66\frac{2}{3}\%$
  - (D) 75%
  - (E) 80%

- 23. What was the increase, if any, in the number of full-time students enrolled at College R from the fall of 1976 to the fall of 1977?
  - (A) 0 (B) 50 (C) 100
  - (D) 150 (E) 200
- 24. In the 1978-1979 school year, if 12 percent of the amount of contributions allocated to scholarships and operational expenses was allocated to heating costs, approximately how much was NOT allocated to heating costs?
  - \$2,000
  - (B) \$25,000
  - (C) \$176,000
  - (D) \$205,000
  - (E) \$250,000
- 25. Approximately what was the total amount of contributions to College R from the 1978-1979 school year through the 1980-1981 school year, inclusive?
  - \$967,000
  - \$1,000,000
  - \$9,000,000
  - \$9,667,000
  - \$10,000,000
- 26. If  $x \neq 0$ , then  $\frac{x(x^2)^3}{x^2}$ 
  - (A)  $x^2$  (B)  $x^3$  (C)  $x^4$ (D)  $x^5$  $(E) x^6$
- 27. Seven is equal to how many thirds of seven?
  - (A)
  - (B)
  - (C)
  - (D)
  - (E) 21



- 28. In the figure above, if the area of the inscribed rectangular region is 32, then the circumference of the circle is
  - (A)  $20\pi$  (B)  $4\pi\sqrt{5}$  (C)  $4\pi\sqrt{3}$
  - (D)  $2\pi\sqrt{5}$  (E)  $2\pi\sqrt{3}$
- 29. Which of the following equals the reciprocal of  $x - \frac{1}{y}$ , where  $x - \frac{1}{y} \neq 0$ ?
  - (A)  $\frac{1}{r} y$
  - $(\mathbf{B}) \Sigma$
  - (C)  $\frac{y}{x-1}$
  - (D)  $\frac{x}{xy-1}$
  - (E)  $\frac{y}{xy-1}$
- 30. A certain integer n is a multiple of both 5 and 9. Which of the following must be true?
  - I. n is an odd integer.
  - II. n is equal to 45.
  - III. n is a multiple of 15.

  - (A) III only (B) I and II only
  - (C) I and III only
  - (D) II and III only
  - (E) I, II, and III

- if the quantity in Column A is greater; if the quantity in Column B is greater; if the two quantities are equal;

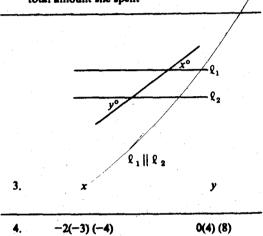
- D if the relationship cannot be determined from the information given.

Column A		Column B
	k + n = 13	
	<b>→</b> + 3 = 8	

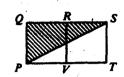
Betty spent \$75 for a bicycle and she also spent \$27 repairing it. She then sold it for \$120.

2. The money Betty received in excess of the total amount she spent

1.



/.	Column A	Column B			
<b>5.</b> ,	10	11 + x			
6.	$\frac{1}{2} + \frac{3}{5}$	1+3 2+5			
	• •	*			



Squares PQRV and VRST have sides of length 6.

7. The area of shaded region PQS

36

R, S, and T are 3 consecutive odd integers and R < S < T.

R+ \$+1

S+T-1

A if the quantity in Column A is greater;

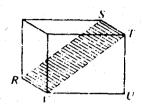
B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.

# Column A

# Column B



In the rectangular solid shown, TU = 3, UV = 4, and VR = 2.

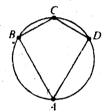
9. The area of the shaded rectangular region

9

$$x^2 y > 0$$

$$xy^2 < 0$$

10.



The diameter of the circle is 10.

11. The area of the region enclosed by quadrilateral ABCD 40

Column A

Column B

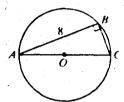
12.  $2\frac{1}{2}$  percent of 1,120

2<sup>2</sup> · 7

Working at constant rates, machine R completely presses x records in 0.5 hour and machine S completely presses x records in 0.75 hour (x > 0).

13. The number of records completely pressed by R in 3 hours

The number of records completely pressed by S in 4 hours



The circle with center O has a radius of 5.

14. The perimeter of ΔABC

24

x, y, and z are negative integers.

15 The product of x, y, The sum of x, y, and z

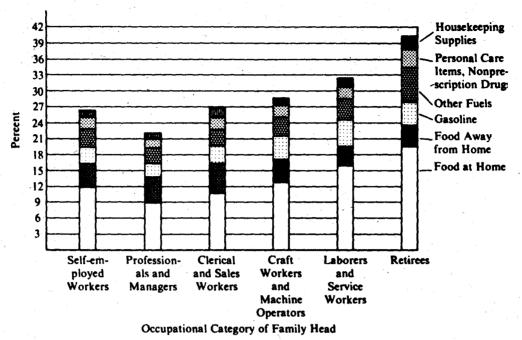
Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the

- 16.  $\sqrt{(42-6)(25+11)}$ 
  - (A) 6 (B) 18 (C) 36
  - (D) 120 (E) 1,296
- 17. The price per pair of brand X socks is \$2 and the price per pair of brand Y socks is \$3. If there is no sales tax and a customer chooses only from among these two brands, what is the greatest number of pairs of socks that he can buy with exactly \$25?
  - (A) 9
  - (B) 10
  - (C) 11
  - (D) 12
- (E) 20
- 18. What is the remainder when 63 is divided by 8?
  - (A) :
  - (B) :
  - (C) 2
  - (D) 1
  - (E) 0

- 19. In the figure above, BP = CP. If x = 120, then y =
  - (A) 30 (B) 60 (C) 75 (D) 90 (E) 120
- 20. If y=3x and z=2y, then in terms of x, x+y+z=
  - (A) 10x (B) 9x (C) 8x
  - (D) 6x (E) 5x

### EXPENDITURES ON FOOD AND SELECTED NONFOOD ITEMS, 1973

Percent of Average Annual Income (before taxes) Spent by Families on Food and Selected Nonfood Items



Note: Drawn to scale.

GO ON TO THE NEXT PAGE.

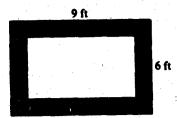
•	Percent of Food and Household Expenditures						
		Food at Home					
Occupational Category of Family Head	Meats, Poultry, Seafood	Cereals, Bakery and Dairy Products, Fruits and Vegetables	Other Food at Home	Food Away from Home	Personal Care Items, Nonprescription Drugs	House- keeping Supplies	Average Weekly Food and Household Expenditures
Self-employed Workers	22	25	14	22	10	7	\$35.88
Professionals and Managers	19	. 23	11	29	11	7	\$38.77
Clerical and Sales Workers	21	22	11	28	11	7	\$32.07
Craft Workers and Machine Operators	23	25	15	21	9	7	\$35.44
Laborers and Service Workers	24	27	14	19	9	7	\$28.86
Retirees	23	29	14	16	11	7	\$19.83

- 21. For which of the following categories was the percent of the average annual income (before taxes) spent on food at home the least?
  - (A) Self-employed workers
  - (B) Professionals and managers
  - (C) Clerical and sales workers
  - D) Craft workers and machine operators
  - (E) Laborers and service workers
- 22. Approximately what average amount per week did the families of professionals and managers spend on food away from home?
  - (A) \$2
  - (B) \$8
  - (C) \$11
  - (D) \$29
  - (E) \$38
- 23. Approximately what percent of the average weekly food and household expenditures of clerical and sales workers was spent on fruits and vegetables?
  - (A) 4% (B) 7% (C) 22% (D) 25%
  - (E) It cannot be determined from the information given.

- 24. Approximately what percent of the total average annual income (before taxes) of retirees was spent on meats, poultry, and seafood (consumed at home)?
  - (A) 7% (B) 10% (C) 20%
  - (D) 23% (E) 31%
- 25. Which of the following statements can be inferred from the information given?
  - Of the categories s<sup>1</sup> on, retirees had the greatest average annual incomes (before taxes).
  - For all the categories shown, the average amount spent per week on housekeeping supplies was the same.
  - III. Of the categories shown, the average amount spent per week on meats, poultry, and seafood (consumed at home) was greatest for craft workers and machine operators.
  - (A) I only (B) II only (C) III only
  - (D) I and II (E) II and III

GO ON TO THE NEXT PAGE.





- 26. The rectangular rug shown in the figure above has a floral border I foot wide on all sides. What is the area, in square feet, of that portion of the rug that excludes the border?

  - (B) 40 (C) 45 (D) 48 (E) 53
- 27. If  $\frac{d-3n}{2n-d}=1$ , which of the following must be true about the relationship between d and n?
  - (A) n is 4 more than d.
  - (B) d is 4 more than n.
  - (C) n is  $\frac{7}{3}$  of d.
  - (D) d is 5 times n.
  - (E) d is 2 times n.

- 28. How many positive whole numbers less than \$1 are NOT equal to squares of whole numbers?
  - (A) 9 (B) 70 (C) 71 (D) 72 (E) 73
- 29. Of the following, which could be the graph of  $2-5x \le \frac{6x-5}{-3}$ ?
- 30. If the formula above gives the area A of a circular region in terms of its diameter d,
  - (A)  $\frac{1}{4}$  (B)  $\frac{1}{2}$  (C) 1 (D) 2 (E) 4

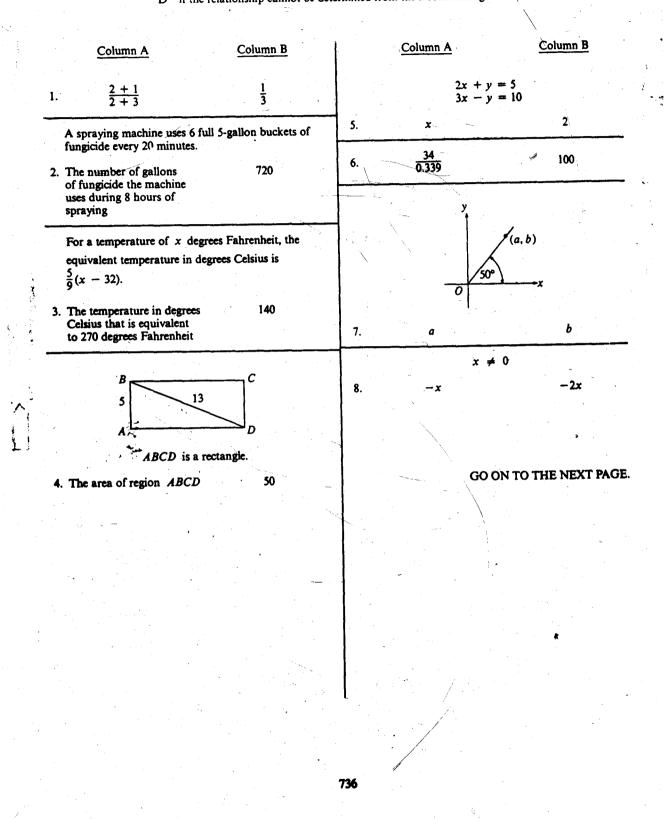
## FOR GENERAL TEST 18 ONLY

Answer Key and Percentages\* of Examinees Answering Each Question Correctly

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10	D	50	10	A	81		10	C	44	10	В	51	10	· A	58	10	C	72
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13	E	41	. 13	Α,	42		13	A	47	13	A	61	13	: C	65	13	· E	35
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16	C	14	16	8	30	9 1	16	E	89	16	С	87	18	D	60	.16	E	45
17	9	85	17	E	86		17	С	84	17	0	81	17	D	72 56	17	D	48
.18	C	79	18	A	50		18	8	87	18	E B	86	18	B	52	18 19	D C	43 76
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Istimated P+ for the group of examiness who took the GRE General Test in a recent three-year period

- A if the quantity in Column A is greater;
- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.



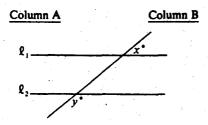
…: GRE Center ::: redefining usability ::.. Bangladesh's only organization of HD tutoring and HD books. Collect our solution books for "GRE Big Book", Admission guide to IBA(BBA), IBA(MBA) and Private University Admission Test. **Call 01768-377-64-0 to 4** [BANANI, LALMATIA, KATABON, UTTARA, KHULNA, CHITTAGONG] More info: www.grecenter.org. ফ্রি বাংলা ভিভিও টিউটোরিয়ালের জন্যে আমাদের ফেসবুক গ্রুপে যোগ দিন (start from here: www.grecenter.org/fb), এবং আমাদের ওয়েবসাইটের ডাউনলোড অংশ থেকে প্রয়োজনীয় সব ইবুক ডাউনলোড করুন।

A if the quantity in Column A is greater;

B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.



 $Q_1$  is not parallel to  $Q_2$ .

9. x + y

180

x and y are consecutive odd integers.

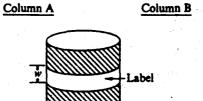
 $10. \qquad 3(x-y)^4$ 

48

Points P, R, and T lie on a straight line. The distance from P to R is 21, and the distance from P to T is 9.

11. The distance from R to T

16



A rectangular label is attached to a right circular cylinder with radius r. The label, which encircles the cylinder without overlap, has width w and an area equal to the area of the base of the cylinder.

ive integer.

13.  $\frac{1}{2^k}$ 

12.

 $\frac{1}{3^k} + \frac{1}{3^k}$ 

yz > 0xy < 0

14. xz

0

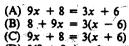
 $k = 2 \cdot 3$   $k = 1 \cdot 3$ 

15. The greatest possible value of 10<sup>k</sup>

10,000

Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the answer choices given.

16. Which of the following equations can be used to find the value of x if 8 more than 9x is 3 times the sum of 6 and x?



(B) 
$$8 + 9x = 3(x - 6)$$
  
(C)  $9x + 8 = 3(x + 6)$ 

(C) 
$$9x + 8 = 3(x + 6)$$

(D) 
$$3(8 + 9x) = 6x$$
  
(E)  $9x + 8 = 3 + 6 + x$ 

- 17. 42 is what percent of 70?
  - 57%
  - 60%

  - *7*0%
  - (E)/167%
- 18. Which of the following is equivalent to
  - (A)  $2^4$
  - (B)  $2^2$

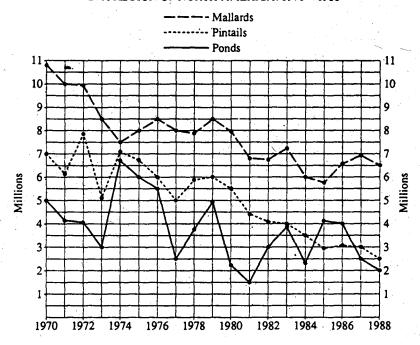
- 19. In the figure above, if the area of  $\triangle XYZ$  is 60, then WY =
  - (A) 5 (B) 10

  - (C) 12
  - (D) 13
  - (E) 18
- 20. Ground oats, wheat bran, linseed meal, and ground barley are mixed by weight in the ratio of 10:6:2:2, respectively. How many tons of wheat bran are there in 15 tons of the mixture?

  - (B) 2

  - (D)  $4\frac{1}{2}$
  - (E)  $7\frac{1}{2}$

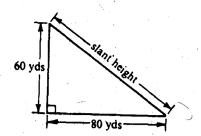
#### THE NUMBER OF PONDS AND THE POPULATIONS OF TWO SPECIES OF DUCKS (MALLARDS AND PINTAILS) IN A REGION OF NORTH AMERICA: 1970 - 1988



Note: Drawn to scale.

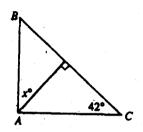
- 21. By approximately how many million did the mallard population decrease from 1970 to 1988?
  - (A) 0.6
  - (B) 2.8
  - (C) 3.6
  - (D) 4.3
  - (E) 7.0
- 22. In 1984 the population of pintails was approximately what fraction of the mallard population:
  - (A)  $\frac{5}{7}$
  - (B)  $\frac{7}{12}$
  - (C) 1
  - (D)  $\frac{1}{4}$
  - (E)  $\frac{3}{20}$
- 23. What was the approximate percent increase in the number of ponds from 1973 to 1974?
  - (A) 80%
  - (B) 125%
  - (C) 175%
  - (D) 200%
  - (E) 375%

- 24. During which of the following periods was the percent decrease in the mallard population closest to 25 percent?
  - (A) 1970 to 1973
  - (B) 1972 to 1973
  - (C) 1974 to 1986
  - (D) 1980 to 1984
  - (E) 1984 to 1985
- 25. For any pair of successive years between 1977 and 1982, inclusive, the increase or decrease in the number of ponds was between
  - (A) 0.7 and 2.8 million
  - (B) 1.0 and 3.0 million
  - (C) 1.5 and 5.3 million
  - (D) 2.5 and 4.8 million
  - (E) 4.1 and 5.3 million



- 26. The figure above shows a cross section of a grandstand that seats 1,000 people per 2 yards of slant height. What is the total number of seats in the grandstand?
  - 25,000
  - (B) 35,000
  - 40,000
  - 50,000 (D)
  - (E) 100,000
- 27. Which of the following is equivalent to  $x^2 < x$ ?

  - -1 < x < 1
  - x < 0
  - (B) (C) (D) x < 1
  - x > 1



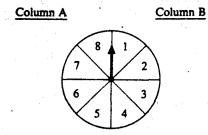
- 28. In the figure above, if  $\angle CAB$  is a right angle, then x = ...
  - (A) 38 (B) 40 (C) 42

- 29. Of the positive integers that are multiples of 30 and are less than or equal to 360, what fraction are multiples of 12?
  - (A)  $\frac{1}{6}$

  - (E)  $\frac{1}{2}$
- 30. If x is an integer and  $x^2 < 37$ , what is the greatest possible value of x minus the least possible value of
  - (A) 5 (B) 6

  - (C) 10
  - (D) 12 (E) 36

- A if the quantity in Column A is greater;
- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.



The circular board is divided into 8 sectors of equal area.

1. The number of the sector on which the pointer comes to rest after rotating 480° clockwise from the position shown

x

The average (arithmetic mean) of x, 2x, and 15 is 12.

2.

 $\frac{2t}{5} = 5$ 

3.

144

8

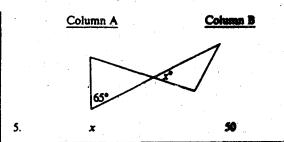
6

153.2 - *yx.y* 

In the correctly performed subtraction shown above, x and y represent digits between 0 and 9, inclusive.

1. x+y

17



x > 0

6. (x-4)(x+5)

 $x^2 - 20$ 

n is a positive integer.

7.  $(-1)^n + (-1)^{n+1}$ 

0

0 < x < y

.

- A if the quantity in Column A is greater;
- B if the quantity in Column B is greater;
- C if the two quantities are equal;
- D if the relationship cannot be determined from the information given.

#### Column A

Column B

A contractor can purchase paint at \$19.50 per gallon or at the bulk rate of 20 gallons for \$335.00.

 The amount saved per gallon by purchasing 20 gallons of the paint at the bulk rate rather than by the gallon

**\$**2.75

Circle F has circumference 4.

10. The radius of F

1



 $\triangle ABC$  is equilateral.

11. The measure of  $\angle ADC$ 

60\*

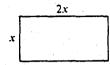
xy = 2x > 0y > 0

12.

x + y

Column A

Column B



\_\_\_\_

Rectangle R

Square S

The perimeters of R and S are equal.

13. The area of R

The area of S

 $\frac{r}{s} = -1$ 

14.

rs

The average (arithmetic mean) of a set of n test scores is 80. The average (arithmetic mean) of these n scores together with a score of 85 is 81.

15.

5

GO ON TO THE NEXT PAGE.

756

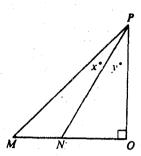
Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the answer choices given.

- 16. Nine pieces of paper numbered consecutively from 1 to 9 are put into a hat. If one piece of paper is drawn at random from the hat, what is the probability that it will have an even number?

  - (C)
  - (D) 1
  - (E)  $\frac{5}{6}$
- 17. If 6x 4 = 5x + 3, then x =
- 18. If p is a positive integer, which of the following could be a prime number?
  - (A) 8p
  - (B) 8p
  - 8p + 2
  - (D) 8p + 4

- 19. A school district has 1,989 computers, which is approximately one computer for every 68.6 students. Of the following, which is the closest approximation, in thousands, of the number of students in the school district?
  - (A) 30 (B) 120

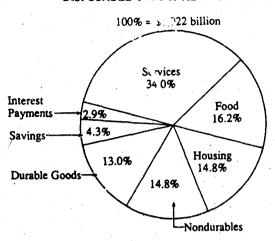
  - (C) 140
  - (D) 160 (E) 200



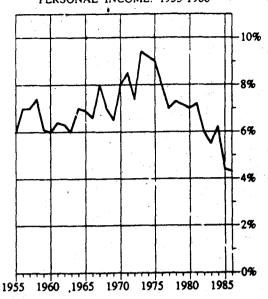
- 20. In the figure above, if MO = OP, then y =

  - (B) 90 x
  - (C) x
  - (D) 45 + x(E) 60 + x

EXPENDITURE OF DISPOSABLE PERSONAL INCOME: 1986



SAVINGS AS A PERCENT OF DISPOSABLE PERSONAL INCOME: 1955-1986



Note: Graphs drawn to scale.

- 21. In 1986 approximately how many billion dollars were spent on durable goods?

  - 393 (B)
  - 453
  - 504 1,007
- 22. In 1986 housing and nondurables together accounted for approximately what fraction of disposable personal income?
  - (A)  $\frac{1}{8}$
  - (B)  $\frac{3}{20}$
- 23. Savings as a percent of disposable personal income was approximately how many times as great in 1975 as in 1955?

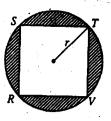
  - (D) 1.5
  - (E) 1.7

- 24. If the gross national product in 1986 was \$1,213 billion more than disposable personal income, then savings that year were approximately what percent of the gross national product?
  - (A) 1.5%
  - (B) 2%
  - (C) 2.5%
  - (D) 3%
  - (E) 6%
- 25. Which of the following statements can be inferred from the graphs?
  - I. In 1986 more than \$1,000 billion of disposable personal income was spent for services.
  - II. From 1955 to 1986, inclusive, savings as a percent of disposable personal income was never greater than 8.5 percent.
  - III. The total dollar amount of savings was greater in 1975 than in 1980.
  - (A) I only
  - (B) II only
  - (C) III only
  - (D) I and III only
  - (E) I, II, and III

- 26. The sum of 2 numbers, x and y, equals twice their product. If x = 3, what is the value of y?
  - $(A) \frac{1}{8}$
  - (B)  $\frac{3}{5}$
  - (C)

  - (E)  $\frac{7}{3}$
- 27. Among all isosceles triangles RST having the measure of angle S equal to 40°, what is the largest possible measure for angle R?
  - 40°
  - (B) 70°
  - 90° (C)
  - (D) 100°
  - (E) It cannot be determined from the information given.
- 28. S is the sum of three consecutive integers, the greatest of which is x. In terms of S, which of the following is the sum of three consecutive integers, the least of which is x?
  - (A) S 6(B) S 3(C) S + 3

  - (D) S + 6
  - (E) 2S



- 29. In the figure above, RSTV is a square inscribed in a circle with radius r. In terms of r, what is the total area of the shaded regions?
  - (A)  $\dot{r}^2(\pi 2)$
  - (B)  $2r(2 \pi)$
  - (C)  $\pi(r^2-2)$
  - (D)  $\pi r^2 8r$
  - (E)  $\pi r^2 4r$
- 30. An emergency vehicle travels 10 miles at a speed of 50 miles per hour. How fast must the vehicle travel on the return trip if the round-trip travel time is to be 20 minutes?
  - (A) 55 mph
  - (B) 60 mph
  - (C) 65 mph
  - (D) 70 mph
  - (E) 75 mph

#### FOR GENERAL TEST 19 ONLY

Answer Key and Percentages\* of Examinees Answering Each Question Correctly

		VERSAL	ABILITY		
- 80	illen 1	•	300	Sen 4	
Number	Answer	P+	Humber	Answer	P+
1 2 3 4 5	₽₽004.	91 93 93 78 73	1 2 3 4 5	B A B B C	90 93 93 86 60
6 7 8 9 10	DBOCE	67 44 87 70 55	6 7 8 9 10	EDEC.	72 61 96 75 62
11 12 13 14 15	CBAEE	67 44 67 70 55 55 43 47 39 34 39 65 79 54	11 12 13 14 15	<b>A A D D A</b>	45 61 51 51 38
16 17 18 19 20	D DCB A	39 65 87 79 54	16 17 18 19 20	CCBEB	26 75 86 36 42
21 22 23 24 25	A CB A E	64 36 85 42 26	21 22 23 24 25	CDDBC	76 60 53 70 73
26 27 28 29 30	世世の母の	24 23 93 86 66	26 27 28 29 30	A BECD	26 75 86 364 76 60 53 70 73 29 28 28 65 54 64 44 54 36
31 32 33 34 35	B D E B	55 49 55 51 44	31 32 33 34 35	A E E B D	54 46 44 54 38
36 37 36	CEA	44 23 21	- 36 37 38	A E D	37 28 15

•	000	WITTATR	/E ABILITY		
Sec	Con 2		Sect	len S	
Humber	Answer	P+	Humber	Answer	P+
1 2 3 4 5	<b>ACB A</b>	86 72 74 71 66	1 2 3 4 5	BB € CD	80 76 75 75 73
6 7 8 9	8 D D C	65 46 63 74 56	6 7 8 9	<b>∢</b> CDCB	67 61 59 49 51
11 12 13 14 15	D B O B C	45 40 29 50 27	11 12 13 14 15	A D B A B	57 61 59 51 43 42 47 53 58 57 57 57 57 57 57 57 57 57 57 57 57 57
11 12 13 14 15 16 17 18 19 20	CBAED	92 83 77 61 61	16 17 18 19 20	COBC	87 89 79 66 73
21 22 23 24 25	D B B D	86 72 66 42 38	21 22 23 24 25	8 004	87 71 56 36 38
26 27 28 29 33	DACED	86 72 66 42 38 55 42 55 39 30	26 27 28 29 30	BDDAE	63 29 28 31 25

		MLYTICA	L ABILITY		
801	Hen 3		Sec	Sen 7	
Humber	Anguer	•	Humber	Answer	P+
1 2 3 4 5	40000	75 77 68 51 36	1 2 3 4 5	CBC#4	79 57 63 53 47
6 7 8 9	ADCDD DABCE CAEAA	53 72 68 44 54	1 2 3 4 5 6 7 8 9	E O B A D	79 57 63 33 47 39 89 86 81 51
11 12 13 14 15	CAEAA	85 75 80 28	11 12 13 14 15	<b>▲</b> CD#	70 61 48 35 29
16 17 18 19 20	BCEAC	78 58 54 49 44	16 17 18 19 20	BBCCB	31 81 64 80 62 70 46 63 78 75
21 22 23 24 25	BCEAC EABAE	29 18 67 48 24	21 22 23 24 25	08#00	70 46 63 78 75
-				•	

<sup>\*</sup>Estimated P+ for the group of examinees who took the GRE General Test in a recent three-year period.

A if the quantity in Column A is greater;

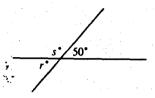
B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.

6.

	Column A	Column B
	m is	equal to 8 or -2.
1.	$(m-3)^2$	25
	x and y a	re each greater than 1.
2.	2xy	(2x)(2y)



3. 3

4.  $(-2)^8$   $-(2^8)$ 

A decrease in the number of sales personnel in Company K to 85 percent of the original sales force resulted in a decrease of 500 in the number of monthly sales.

5. The percent decrease in the number of Company K's monthly sales

The percent decrease in the number of Company K's sales personnel



**----**

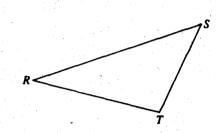
 $1 - \frac{1}{9}$ 

Column B

Jim is 3 years older than Jonathon. Myra is 5 years older than Melissa. Jonathon is 2 years older than Melissa.

7. Jim's age

Myra's age



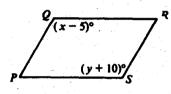
8. ST + TR

RS

750 < n < 1,500

9. 1,500 - n

n - 750



PQRS is a parallelogram.

10.

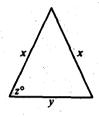
A if the quantity in Column A is greater; B if the quantity in Column B is greater;

-z

if the two quantities are equal;

D if the relationship cannot be determined from the information given.

Column A Column B



11.

x

12. 
$$z$$
 60  
13.  $(x + 3)(x + 3)$   $x^2 + 9$ 

Column A

Column B



Three tennis balls of identical size are stacked one on top of the other so that they fit exactly inside a closed right cylindrical can, as shown.

14. The height of the stack of 3 balls

The circumference of one of the balls

t is an integer.

15.

<u>Directions:</u> Each of the <u>Questions 16-30</u> has five answer choices. For each of these questions, select the best of the answer choices given.

- 16. If  $\frac{1}{6}n = \frac{1}{5}$ , then n =

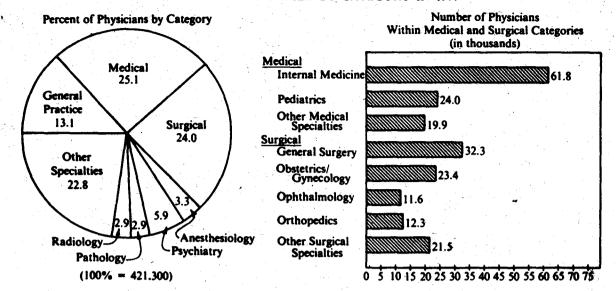
  - (D) 6
  - (E) 30
- 17. If membership in the Elks Club increases from 120 to 150, what is the percent increase?
  - (A) 15%

  - (B) 25% (C) 30%
  - (D) 40%
  - (E) 80%
- 18. The value of  $\left(1 \frac{5}{7}\right)\left(1 + \frac{3}{4}\right)$  is
  - (A)  $\frac{1}{28}$
  - (B)  $\frac{3}{14}$

  - (E)  $\frac{1}{2}$

- 19. If the circumference of a circle is less than  $10\pi$ , which of the following could be the area of the
  - (A)  $20\pi$
  - (B)  $25\pi$
  - (C)  $36\pi$
  - (D) 81π (E) 100π
- 20. If a, b, and c are consecutive positive integers and a < b < c, which of the following must be an odd integer?
  - (A) abc
  - (B) a+b+c
  - (C). a + bc
  - (D) a(b + c)
  - (E) (a + b)(b + c)

### PHYSICIANS CLASSIFIED BY CATEGORY IN 1977



- 21. Approximately what was the ratio of physicians in the surgical category to physicians in pathology?
  - (A) 10 to 1
  - (B) 8 to 1
  - (C) 7 to 1
  - (D) 5 to 6
  - (E) 4 to 5
- 22. Approximately how many more physicians were in psychiatry than in radiology?
  - 3,000
  - (B) 6,300
  - 12,690 (C)
  - (D) 24,800
  - (E) 37,000
- 23. Approximately how many of the physicians in the medical category were not in pediatrics?
  - 61,800
  - **(B)** 76,000
  - 81,700 C
  - (D) 92,600
  - (E) 101,100

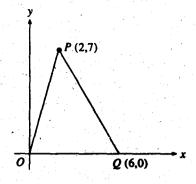
- 24. If there was a total of 334,000 physicians in 1970, what was the approximate percent increase in the number of physicians from 1970 to 1977?
  - (A) 10%
  - (B) 12%
  - (C) 16%
  - (D) 20%
  - (E) 26%
- 25. In 1977, if twice as many anesthesiologists as orthopedists were sued for malpractice and 10 percent of the orthopedists were sued, approximately what percent of the anesthesiologists were sued?

  - 5% 9% (B)
  - (C) 18%
  - **(D)**

- 26. If x can have only the values -3, 0, and 2, and ycan have only the values -4, 2, and 3, what is the greatest possible value for  $2x + y^2$ ?
  - (A) 13 (B) 15

  - (C) 16
  - (D) 20 (E) 22
- 27. If B is the midpoint of line segment AD and C is the midpoint of line segment BD, what is the value of  $\frac{AB}{AC}$ ?

  - (D)  $\frac{1}{2}$
  - (E)



- 28. The area of  $\triangle OPQ$  in the figure above is

  - (A) 6 (B) 12
  - (C) 14
  - (D) 21 (E) 42
- 29. What is the greatest positive integer n such that 2" is a factor of 1210?
  - (A) 10
  - (B) 12
  - (C) 16
  - (D) 20
  - (E) 60
- 30. For each of n people, Margie bought a hamburger and a soda at a restaurant. For each of n people, Paul bought 3 hamburgers and a soda at the same restaurant. If Margie spent a total of \$5.40 and Paul spent a total of \$12.60, how much did Paul spend just for hamburgers? (Assume that all hamburgers cost the same and all sodas cost the same.)
  - (A) \$10.80
  - (B) \$9.60
  - \$7.20
  - \$3.60 (D)
  - (E) \$2.40

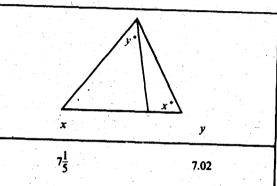
## T 20 54

- A if the quantity in Column A is greater;
  B if the quantity in Column B is greater;
- if the two quantities are equal;
- D if the relationship cannot be determined from the information given.

	Column A		Column B			
. 1.	$\frac{4}{5} + \frac{2}{11}$		1			
2.	(1.9)3		(1.999)²			
	X		Y			
	-1 (	)	1 2			
ו	The numbers that	correspond	to points X and Y			

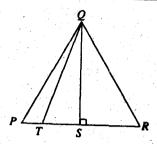
on the number line are  $-\frac{3}{4}$  and  $\frac{5}{4}$ , respectively. 3. The number that corresponds to the point halfway

between X and Y



Column A

Column B



S is the midpoint of segment PR.

7. The length of segment QT

The length of segment QR

A merchant made a profit of \$2.75 on the sale price of a sweater that cost the merchant \$12.25.

8. The profit expressed as a percent of the cost to the merchant

The profit expressed as a percent of the sale

A if the quantity in Column A is greater;

B if the quantity in Column B is greater;

C if the two quantities are equal;

D if the relationship cannot be determined from the information given.

Column A Column B

9.

k

n

A student has test scores of 85, x, and y, respectively, and an average (arithmetic mean) score of 95 on the three tests.

10. The average (arithmetic mean) of x and y

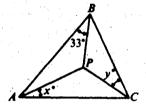
100

$$y^2 + 4y - 12 = 0$$

11.

y<sup>2</sup>

30



Segments PA, PB, and PC are the angle bisectors of  $\triangle ABC$ .

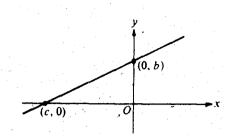
12:

r +

57

Column A

Column B



The line y = ax + b is graphed on the rectangular coordinate axes.

13.

a

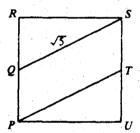
 $(n^{(*)})^*$ 

 $\frac{b}{-c}$ 

For all numbers n,  $n^* = 32 - n$ .

14.

n



Q and T are the midpoints of opposite sides of square PRSU.

15. The area of region PQST

3

Directions: Each of the Questions 16-30 has five answer choices. For each of these questions, select the best of the answer choices given.

- 16. If a certain company purchased its computer terminals for a total of \$540,400 and each of the terminals was purchased for \$350, how many terminals did the company purchase?
  - (A) 1,624
  - (B) 1,544 (C) 1,434 (D) 1,384

  - (E) 1,264
- - **(B)** 1
  - (C) ½
  - (D)  $\frac{1}{2}$
  - (E) 1
- 18. If 2x = -10, then  $4x^2 6x 5 =$ 
  - 65

- 19. If 3 < x < 8 and 5 < y < 11, which of the following represents all the possible values of xy?
  - (A) 3 < xy < 11
  - (B) 8 < xy < 19
  - (C) 15 < xy < 88
  - (D) 24 < xy < 55(E) 33 < xy < 40
- 20. Chris gave Jane x cards. He gave Betty one card. more than he gave Jane and he gave Paul two cards fewer than he gave Betty. In terms of x, how many cards did Chris give Betty, Jane, and Paul altogether?
  - (A) 3x + 1
  - (B) 3x
  - (C) 3x 1
  - (D) x 1
  - (E)  $\frac{x}{3}$

Kitchen Din ig Room  $19\frac{1}{2}$ Hall Living Room Porch

Front

Note: Figure drawn to scale.

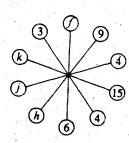
The figure above shows the plan for the ground floor of a house. The thickness of the walls should be ignored in answering the questions. The dimensions are in feet, and each region is rectangular.

- 21. What is the area, in square feet, of the living room?
  - (A) 161
  - (B) 140
  - (C) 133
  - (D) 126
  - (E) 115
- 22. If the ceilings and walls of the living room, dining room, kitchen, and hall are to be painted, how many square feet must be painted?
  - (A)  $231\frac{1}{4}$
  - (B) 324
  - (C) 333
  - (D)  $380\frac{1}{4}$
  - (E) It cannot be determined from the information given.
- 23. If the hall is  $6\frac{1}{2}$  feet long, what is the perimeter, in feet, of the porch area?

  - (A) 18 (B) 19
  - (C) 20 (D) 21

- 24. How many more feet does the porch extend in front of the house than it does beyond the side of the house?
  - (A)  $\frac{1}{2}$
  - (B) 1
  - (C)  $1\frac{1}{2}$
  - (D) 2
  - (E) It cannot be determined from the information given.
- 25. If the kitchen is square, what is the ratio of the area of the kitchen to the area of the dining room?
  - (A)  $\frac{16}{37}$

  - (E)  $\frac{16}{21}$



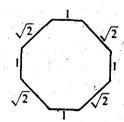
- 26. In the figure above, the product of any two numbers in adjacent circles is equal to the product of the two numbers that are opposite those circles. For example,  $3 \cdot f = 4 \cdot 6$ . What is the value of j?
  - (A) (B) 4
  - (C)
  - (D) 12 (E) 20
- 27. In the figure above, if  $PQ \parallel RS$ , then x =

  - (A) 95 (B) 85 (C) 75 (D) 65

  - (E) 55

- 28. If  $x \neq 0$ , then  $\frac{x+7}{7x} \frac{1}{x} =$ 

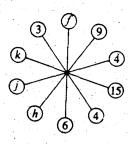
  - (E)  $-\frac{1}{7}$



- 29. The figure above shows the lengths of the sides of an equiangular polygon. What is the area of the polygon?
  - (A) 7
  - (B)
  - (C) 9
  - (D)  $14\sqrt{2}$
  - (E) It cannot be determined from the information
- 30. A certain recipe makes enough batter for exactly 8 circular pancakes that are each 10 inches in diameter. How many circular pancakes, each 5 inches in diameter and of the same thickness as the 10-inch pancakes, should the recipe make?

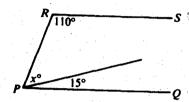
  - (B) 16 (C) 24 (D) 32

793



- 26. In the figure above, the product of any two numbers in adjacent circles is equal to the product of the two numbers that are opposite those circles. For example,  $3 \cdot f = 4 \cdot 6$ . What is the value of j?
  - (A) 3 (B) 4 (C) 6 (D) 12

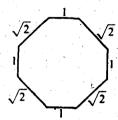
  - (E) 20



- 27. In the figure above, if  $PQ \parallel RS$ , then x =

  - (D) .65
  - (E) 55

- 28. If  $x \neq 0$ , then  $\frac{x+7}{7x} \frac{1}{x} =$



- 29. The figure above shows the lengths of the sides of an equiangular polygon. What is the area of the polygon?
  - (A) 7
  - (B)

  - (D)  $14\sqrt{2}$
  - (E) It cannot be determined from the information given.
- 30. A certain recipe makes enough batter for exactly 8 circular pancakes that are each 10 inches in diameter. How many circular pancakes, each 5 inches in diameter and of the same thickness as the 10-inch pancakes, should the recipe make?

  - (A) 4 (B) 16 (C) 24 (D) 32

  - (E) 40

# FOR GENERAL TEST 20 ONLY Answer Key and Percentages\* of Examinees Answering Each Question Correctly

VERBAL ABILITY									
	ction 3			ction 6					
Number	Answer	P+-	Number	Answer	P+				
1 2 3 4 5	B B D A C	89 86 51 48 49	1 2 3 4 5	C A B D D	85 84 80 59 55				
6 7 8 9	#DC0B	44 30 76 83 77	6 7 8 9	E E A C D	48 34 92 86 77				
11 12 13 14 15	<b>m</b> mDCC	67 61 54 34 35	11 12 13 14 15	BBCEC	58 57 43 35 33				
16 17 18 19 20	<b>A</b> B <b>B A</b> D	14 86 74 79 54	16 17 18 19 20	A D C E B	33 63 70 90 48				
21 22 23 24 25	A B E C D	81 26 52 42 76	21 22 23 24 25	DEAAE	59 64 30 38 26				
26 27 28 29 30	<b>A</b> B <b>E A A</b>	81 26 52 42 76 50 44 92 90 86	26 27 28 29 30	C D B	59 64 30 38 26 63 44 86 91 75				
31 32 33 34 35	DC <b>€</b> CB	83 75 43 39 34	31 32 33 34 35	ACADA	85 74 42 45 38				
36 37 38	E D	29 26 7	36 37 38	B D	30 25 20				

Se Number	ction 2		TIVE ABIL	ction 4	
MAILIDE!	Answer	P+	Number	Answer	P+
1 2 3 4 5	C B A A D	87 85 87 88 77	1 2 3 4 5	8 8 D A	85 86 81 74 83
6 7 8 9 10	<b>≯</b> 0≯0	74 70 61 57 56	6 7 8 9	D B A B C	78 76 61 50 61
11 12 13 14 15	BUADA UADBD	40 43 31 45 29	11 12 13 14 15	0000▲	41 35 32 23 47
16 17 18 19 20	CBEAE	81 69 79 53 42	16 17 18 19 20	88008	83 77 74 65 68
21 22 23 24 25	BCCEC	84 66 69 47 36	21 22 23 24 25	BEDAE	79 76 56 51 37
26 27 28 29 30	D B D D	65 64 65 25 30	26 27 28 29 30	A E D A D	49 51 56 29 25

ANALYTICAL ABILITY								
Se Se	ction 1			etion 5	P+			
Number	Answer	P+	Number	Answer				
2	· 6	62	2	8	77			
1 2 3 4 5	A D C B O	81 62 53 94 82	3	8 8 0 8	79 77 75 59 66			
5	8	82	5					
8	E	63	6	C.	79			
é	Ē	40	8	Ĝ.	77			
6 7 8 9	EDEDE	63 80 40 74 57	1 2 3 4 5 6 7 8 9	C A	79 69 77 62 43			
			11 12	A	70			
12 '	A	69 54	13	E A	70			
11 12 13 14 15	DAACA	40 69 54 29 56	14 15	CADCA AEACE	70 44 70 71 55			
			16					
17 18	В	48	17 18	P	36			
16 17 18 19 20	<b>#BC#C CCD#</b>	16 48 35 48 44	19 20	DDECS DACOD	57 36 36 58 65			
	c			D				
22	č	36	22	. Ā	24			
21 22 23 24 25	B	48 36 48 53 28	21 22 23 24 25	ŏ	27 24 42 48 51			
25	Ā	28	25	D .	51			
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<sup>\*</sup>EstimateJ P+ for the group of examinees who took the GRE General Test in a recent three-war period

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